



Reverse Polarity TNC Female to Reverse Polarity SMA
Male Cable 50 cm Length Using 53 Ohm RG55 Coax

RF Cable Assemblies Technical Data Sheet

PE3W07647-50CM

Configuration

- Connector 1: TNC Female Reverse Polarity
- Connector 2: SMA Male Reverse Polarity
- Cable Type: RG55

Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07647-50CM reverse polarity TNC female to reverse polarity SMA male 50 cm cable using 53 ohm RG55 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack reverse polarity TNC to reverse polarity SMA cable assembly has a female to male gender configuration with 53 ohm flexible RG55 coax. The PE3W07647-50CM reverse polarity TNC female to reverse polarity SMA male cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		66		%
Capacitance		28.8 [94.49]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity TNC Female to Reverse Polarity SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax PE3W07647-50CM](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.3	0.34	0.47	0.65	0.73	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Cable

Cable Type RG55
Impedance 53 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PE
Number of Shields 2
Shield Layer 1 Tinned Copper Braid
Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black
Jacket Diameter 0.202 in [5.13 mm]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Female Reverse Polarity	SMA Male Reverse Polarity
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating		Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type		PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification		QQ-N-290
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		QQ-N-290
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W07647

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W07647-12 = 12 inches long cable
PE3W07647-100cm = 100 cm long cable

Reverse Polarity TNC Female to Reverse Polarity SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

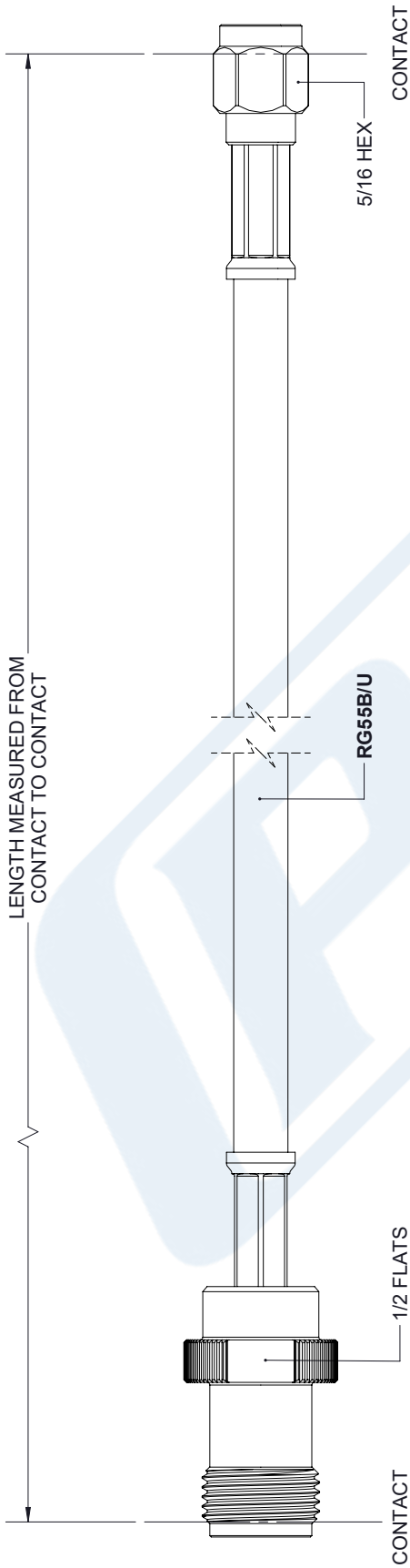
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity TNC Female to Reverse Polarity SMA Male Cable 50 cm Length Using 53 Ohm RG55 Coax PE3W07647-50CM](https://www.pasternack.com/tnc-female-sma-male-rg55bu-cable-assembly-pe3w07647-50cm-p.aspx)

URL: <https://www.pasternack.com/tnc-female-sma-male-rg55bu-cable-assembly-pe3w07647-50cm-p.aspx>

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PE3W07647-50CM CAD Drawing
Reverse Polarity TNC Female to Reverse Polarity SMA Male
Cable 50 cm Length Using 53 Ohm RG55 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS			
TOLERANCES:			
X±.2	[5.08]	FRACTIONS	
.XX±.01	[.25]		±.132
.XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

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Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com			
SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W07647
			REV
			A

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SCALE	N/A		

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